

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2004/004847

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B1/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 625 180 A (HANSON GEORGE E ET AL) 29 April 1997 (1997-04-29) column 1, line 54 - column 2, line 67; figure 1	1
A	US 5 410 326 A (GOLDSTEIN STEVEN W) 25 April 1995 (1995-04-25) column 3, line 14 - column 5, line 42; figure 1	1
A	US 5 052 943 A (DAVIS PATRICK H) 1 October 1991 (1991-10-01) column 1, line 30 - column 2, line 20; figure 1	1
A	US 6 084 381 A (KAJIURA KATSUYUKI) 4 July 2000 (2000-07-04) column 2, line 1 - line 30; figures 2,3	2
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

8 October 2004

Date of mailing of the international search report

05/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 44 42 224 A (FRANKE RICHARD ; WOLF ULRICH (DE)) 30 May 1996 (1996-05-30) column 3, line 44 - line 57	3

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Information on patent family members

International Application No

PCT/EP2004/004847

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5625180	A	29-04-1997	US 5517434 A	14-05-1996
			US 5521370 A	28-05-1996
			US 6375344 B1	23-04-2002
			US 5888087 A	30-03-1999
			CA 1340450 C	16-03-1999
			US 5872354 A	16-02-1999
			US 5834753 A	10-11-1998
			US 5790536 A	04-08-1998
			US 5726984 A	10-03-1998
			US 5949056 A	07-09-1999
			US 5914481 A	22-06-1999
			CA 1340400 C	16-02-1999
			US 5289378 A	22-02-1994
			US 5331580 A	19-07-1994
			US 5672860 A	30-09-1997
			US 5625555 A	29-04-1997
			US 5747785 A	05-05-1998
			US 5694318 A	02-12-1997
			US 5195183 A	16-03-1993
			US 5371858 A	06-12-1994
			US 5465207 A	07-11-1995
			US 5457629 A	10-10-1995
			US 5928292 A	27-07-1999
			US 5895431 A	20-04-1999
US 5410326	A	25-04-1995	NONE	
US 5052943	A	01-10-1991	CA 1340450 C	16-03-1999
US 6084381	A	04-07-2000	JP 3459556 B2	20-10-2003
			JP 11206029 A	30-07-1999
DE 4442224	A	30-05-1996	DE 4442224 A1	30-05-1996